SEQUENCE LISTING

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Alnemri, Emad S.

<120> A CONSERVED XIAP-INTERACTION MOTIF IN CASPASE-9 AND SMAC/DIABLO FOR MEDIATING APOPTOSIS

<130> 480140.475

<140> US
<141> 2002-02-06

<160> 28

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 416
<212> PRT
<213> Homo sapiens

<400> 1

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Glu Leu Phe Arg Pro His Met Ile Glu Asp Ile Gln Arg Ala Gly Ser
        35                  40                  45
Gly Ser Arg Arg Asp Gln Ala Arg Gln Leu Ile Ile Asp Leu Glu Thr
    50                  55                  60
Arg Gly Ser Gln Ala Leu Pro Leu Phe Ile Ser Cys Leu Glu Asp Thr
65                  70                  75                  80
Gly Gln Asp Met Leu Ala Ser Phe Leu Arg Thr Asn Arg Gln Ala Ala
                85                  90                  95
Lys Leu Ser Lys Pro Thr Leu Glu Asn Leu Thr Pro Val Val Leu Arg
            100                 105                 110
Pro Glu Ile Arg Lys Pro Glu Val Leu Arg Pro Glu Thr Pro Arg Pro
        115                 120                 125
Val Asp Ile Gly Ser Gly Gly Phe Gly Asp Val Gly Ala Leu Glu Ser
    130                 135                 140
Leu Arg Gly Asn Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys
145                 150                 155                 160
Gly His Cys Leu Ile Ile Asn Asn Val Asn Phe Cys Arg Glu Ser Gly
                165                 170                 175
Leu Arg Thr Arg Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg
            180                 185                 190
Arg Phe Ser Ser Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr
        195                 200                 205
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Ala Lys Lys Met Val Leu Ala Leu Leu Glu Leu Ala Gln Gln Asp His
    210                 215                 220
Gly Ala Leu Asp Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln
225                 230                 235                 240
Ala Ser His Leu Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys
                245                 250                 255
Pro Val Ser Val Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys
            260                 265                 270
Pro Ser Leu Gly Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly
        275                 280                 285
Gly Glu Gln Lys Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu
    290                 295                 300
Asp Glu Ser Pro Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln
305                 310                 315                 320
Glu Gly Leu Arg Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro
                325                 330                 335
Thr Pro Ser Asp Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val
            340                 345                 350
Ser Trp Arg Asp Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp
        355                 360                 365
Asp Ile Phe Glu Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu
    370                 375                 380
Leu Arg Val Ala Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met
385                 390                 395                 400
Pro Gly Cys Phe Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser
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<210> 2
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<213> Drosophila sp.

<400> 2
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 1               5                  10                  15
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<213> Drosophila sp.

<400> 3
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 1               5                  10                  15
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<210> 4
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<212> PRT
<213> Drosophila sp.

<400> 4

Ala Val Pro Phe Tyr Leu Pro Glu Gly Gly Ala Asp Asp Val Ala
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<210> 5
<211> 15
<212> PRT
<213> Mus musculus

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Ala Val Pro Tyr Gln Glu Gly Pro Arg Pro Leu Asp Gln Leu Asp
1 5 10 15

<210> 6
<211> 15
<212> PRT
<213> Homo sapiens

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<210> 7
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<212> PRT
<213> Xenopus sp.

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1 5 10 15

<210> 8
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<212> PRT
<213> Homo sapiens

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<210> 9
<211> 5
<212> PRT
<213> Homo sapeins

<400> 9
Ala Val Pro Ser Pro
1 5

<210> 10
<211> 5
<212> PRT
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<400> 10
Ala Ile Pro Phe Phe
1 5

<210> 11
<211> 15
<212> PRT
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<400> 11
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1 5 10 15

<210> 12
<211> 7
<212> PRT
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<400> 12
Ala Val Pro Ile Ala Gln Lys
1 5

<210> 13
<211> 4
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<223> Consensus IAP-binding motif

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<223> Xaa = Val, Thr or Ile

<221> VARIANT
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<221> VARIANT
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<223> Xaa = Gly, Ala, Val, Leu, Ile, Pro, Ser, Thr, Cys,
Met, Asn or Gln

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<210> 14
<211> 9
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<220>
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<210> 15
<211> 4
<212> PRT
<213> Mus musculus

<400> 15
Ala Val Pro Tyr
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<210> 16
<211> 1480
<212> DNA
<213> Homo sapiens

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atcgaggaca tccagcgggc aggctctgga tctcggcggg atcaggccag gcagctgatc 180
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acaggccagg acatgctggc ttcgtttctg cgaactaaca ggcaagcagc aaagttgtcg 300
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<212> PRT
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<220>
<223> Consensus cysteine protease active site.

<221> VARIANT
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<400> 17
Gln Ala Cys Xaa Gly
1 5

<210> 18
<211> 32
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<213> Homo sapiens

<400> 18
Pro Glu Asp Glu Ser Pro Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro
1 5 10 15
Phe Gln Glu Gly Leu Arg Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser
20 25 30

<210> 19
<211> 5
<212> PRT
<213> Homo sapiens

<400> 19
Ala Thr Pro Phe Gln
1 5

<210> 20
<211> 5
<212> PRT
<213> Homo sapiens

<400> 20
Ala Val Pro Ile Ala
1 5

<210> 21
<211> 4

<212> PRT
<213> Homo sapiens

<400> 21
Ala Val Pro Ile
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<210> 22
<211> 32
<212> PRT
<213> Homo sapiens

<400> 22
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 1   5   10   15
Phe Gln Glu Gly Leu Arg Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser
            20   25   30

<210> 23
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<212> PRT
<213> Drosophila sp.

<400> 23
Ala Val Pro Phe Tyr
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<210> 24
<211> 5
<212> PRT
<213> Homo sapiens

<400> 24
Ala Val Pro Ile Ala
 1   5

<210> 25
<211> 5
<212> PRT
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<400> 25
Ala Thr Pro Phe Gln
 1   5

<210> 26
<211> 5
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<213> Drosophila sp.

<400> 26
Ala Val Ala Phe Tyr
1 5

<210> 27
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<400> 27
Ala Ile Ala Tyr Phe
1 5

<210> 28
<211> 4
<212> PRT
<213> Homo sapiens

<400> 28
Ala Thr Pro Phe
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